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L 07430-67 EWP(k)/EWT(m)/EWP(v)/EWP(t)/ETI JD/HM

ACC NR: AP6030272 (N) SOURCE CODE: UR/0125/66/000/008/0048/0049

AUTHOR: Berezhnitskiy, S. N. (Sevastopol'); Sagan', V. Ya. (Sevastopol'); Glushko, V. Ya.

ORG: [Glushko] VNIIPT khimnefteapparatury

TITLE: A combination method for butt welding steel pipelines

SOURCE: Avtomaticheskaya svarka, no. 8, 1966, 48-49

TOPIC TAGS: inert gas welding, pipeline, argon, carbon dioxide, BUTT WELDING

ABSTRACT: A new method is described for butt welding steel pipelines which produces a high-quality joint without the use of backing rings. The first seam is made by manual DC argon-arc welding with pipe rotation using an infusible electrode in the lower position. The joint is held by melting the metal at 2 or 3 points. Argon was fed into the pipe to protect the reverse side of the joint. Hot cracks were prevented by welding the seam with an admixture of Sv-08G2S wire 1.6-2 mm in diameter. An A-825 semi-automatic welder was used for making the second seam in a carbon dioxide atmosphere. In making the first seam the rate of argon flow is 8 l/min for welding and 2-3 l/min for protecting the back side of the weld. A welding current of 80-135 a should be used depending on the thickness of the pipe. The rate of carbon dioxide flow for the second joint is 8-10 l/min with a welding current of 90-130 a depending on the pipe thickness. The proposed method takes considerably less time than conventional welding methods. Orig. art. has: 1 figure, 2 tables.

SUB CODE: 13/ SUBM DATE: 21Jul65/ ORIG REF: 002

Card 1/1

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L 2300-66

ACCESSION NR: AP5020165 ENCLOSURE: 01

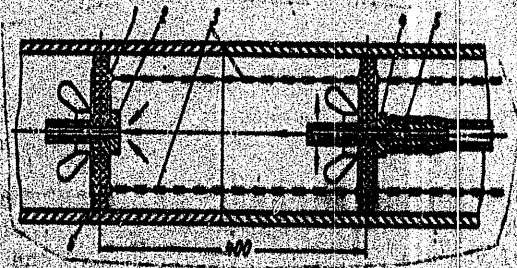

Fig. 1. Argon supply: 1- washers, 2- exhaust, 3- chains, 4- inlet, 5- rubber tube, 6- rubber seals

Card 3/3 DP

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L 2300-66

ACCESSION NR: AP5020165

6

found to be 9-10 liter/min, 2-3 mm, 120-140 amp, and 90-120 amp respectively for 2 and 2.5 mm thick copper walls and 10, 3-4, 160-180, and 130-150 for 3 and 3.5 mm walls. N. K. Taranovskiy, A. A. Myatyash, V. P. Kobylyanskiy, L. N. Rutkovskiy, A. A. Gulitov, and V. Ya. Glushko participated in the work. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 01 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

Card 2/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

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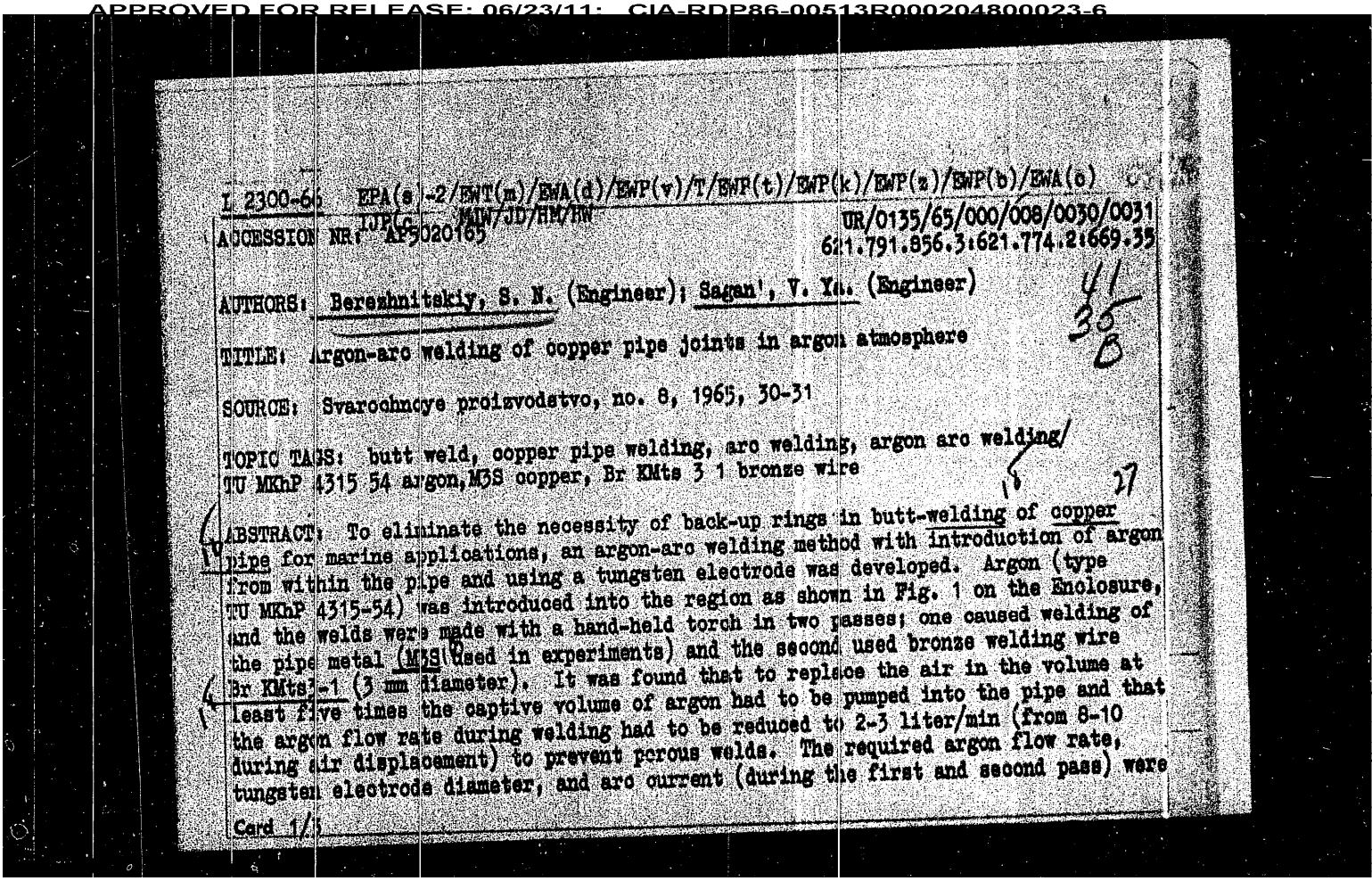

L 2300-66 EPA(s)-2/EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) IJP(c) MJW/JD/HM/HW

ACCESSION NR: AP5020165 UR/0135/65/000/008/0030/0031
621.791.856.3:621.774.2:669.35

AUTHORS: Bereshnitskiy, S. N. (Engineer); Sagan', V. Ya. (Engineer) 41 35 B

TITLE: Argon-arc welding of copper pipe joints in argon atmosphere

SOURCE: Svarochnoye proizvodstvo, no. 8, 1965, 30-31

TOPIC TAGS: butt weld, copper pipe welding, arc welding, argon arc welding/ TU MKhP 4315 54 argon, M3S copper, Br KMts 3 1 bronze wire

ABSTRACT: To eliminate the necessity of back-up rings in butt-welding of copper pipe for marine applications, an argon-arc welding method with introduction of argon from within the pipe and using a tungsten electrode was developed. Argon (type TU MKhP 4315-54) was introduced into the region as shown in Fig. 1 on the Enclosure, and the welds were made with a hand-held torch in two passes; one caused welding of the pipe metal (M3S used in experiments) and the second used bronze welding wire Br KMts3-1 (3 mm diameter). It was found that to replace the air in the volume at least five times the captive volume of argon had to be pumped into the pipe and that the argon flow rate during welding had to be reduced to 2-3 liter/min (from 8-10 during air displacement) to prevent porous welds. The required argon flow rate, tungsten electrode diameter, and arc current (during the first and second pass) were

Card 1/5

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BEREZHNITSKIY, S.N., inzhener.

A plant's experience in adopting electric arc welding of copper piping. Sudostroenie 23 no.3:51-52 Mr '57. (MLRA 10:5)
(Marine pipe fitting) (Electric welding)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

ATAMANCHUK, N.S.; BEREZHNITSKIY, M.N.

Vascular tone in diabetes mellitus. Probl. endok. i gorm. 10 no.6: 46-49 N-D '64. (MIRA 18:7)

1. Kalushskaya rayonnaya bol'nitsa (glavnyy vrach S.M.Zelyk); nauchnyy rukovoditel' - zav. kafedroy fakul'tetskoy terapii Ivano-Frankovskogo meditsinskogo instituta prof. M.L.Aviosor.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

SHVELENKO, L.A.; BEREZHNITSKIY, M.N.

Clinical aspects of comatose state in adrenal insufficiency. Sov. med. 27 no.3:97-98 Mr '64. (MIRA 17:11)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.L. Aviosor) Ivano-Frankovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, M.N.

Plasticity of human coronary vessels in the pulmonary heart syndrome. Arkh. anat., gist. i embr. 8:98-103 '63. (MIRA 17:12)

1. Kafedra anatomii (zav. - prof. Ye.P.Mel'man) i kafedra fakul'tetskoy terapii (zav. - prof. M.L.Aviosor) Ivano-Frankovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

AVIOSOR, M.L., prof.; DUSHKINA, V.L., dotsent; BEREZHNITSKIY, M.N.

Diagnosis of rheumatic and theumatoid polyarthritis. Vrach. delo no.11:127-128 N'63 (MIRA 16:12)

1. Klinika fakul'tetskoy terapii Ivano-Frankovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

AVIOSOR, M.L., prof.; GERASIMENKO, N.I.; BEREZHNITSKIY, M.N.; SHVEDENKO, L.A. (Stanislav)

Interaction of the thyroid gland and pancreas. Klin. med. 41 no.7:137-138 Jl '63 (MIRA 16:12)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. M.L.Aviosor) Stanislavskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, M.N. (Ivano-Frankovsk)

Venous pressure in chronic diseases of the lungs in the stage of pulmonary and pulmonary-cardiac insufficiency. Vrach.delo no.4:132 Ap'63. (MIRA 16:7)

1. Ivano-Frankovskaya pervaya gorodskaya klinicheskaya bol'nitsa.

(HEART—DISEASES) (LUNGS—DISEASES)
(BLOOD PRESSURE)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, M.N.

State of the coronary circulation in pulmonary heart syndrome. Terap. arkh. 34 no.12:45-48 D'62. (MIRA 16:6)

1. Iz Gorodskoy bol'nitsy No.1. Nauchnyye rukovoditeli : prof. M.L.Aviosor (kafedra fakul'tetskoy terapii) i prof. Ye.P. Mel'man (kafedra normal'noy anatomii) Stanislavskogo meditsinskogo instituta.

(CORONARY VESSELS—DISEASES) (PULMONARY HEART DISEASE)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

AVIOSOR, M.L., prof.; BEREZHNITSKIY, M.N.; SHVEDENKO, L.A.

Combination of myocardial infarct with hemorrhagic pancreatitis.
Vrach.delo no.8:133 Ag '62. (MIRA 15:11)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.L.Aviosor)
Stanislavskogo meditsinskogo instituta.
(HEART--INFARCTION) (PANCREAS--DISEASES)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, M.N.

Fixation of radioactive iodine by the thyroid gland in patients with cholecystitis. Vrach. delo no.11:129-130 N '61. (MIRA 14:11)

1. Pervaya gorodskaya klinicheskaya bol'nitsa. Nauchnyy rukovoditel' prof. M.L.Aviosor.
(IODINE--ISOTOPES) (THYROID GLAND)
(GALL BLADDER--DISEASES)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, M.N.

Allergic reaction during mercusal administration. Klin. med. 38 no. 2:139-140 F '60. (MIRA 14:1)
(MERCURY COMPOUNDS—PHYSIOLOGICAL EFFECT)
(ALLERGY)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, M.N.

Reactivity of the circulatory system in petroleum refinery workers. Vrach.delo no.2:157-159 F '60. (MIRA 13:6)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.L. Abiosor) Stanislavskogo meditsinskogo instituta.
(NADVORNAYA--PETROLEUM WORKERS--DISEASES AND HYGIENE)
(CARDIOVASCULAR SYSTEM)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, M.N.

Normal venous pressure. Vrach. delo no.4:423 Ap '59. (MIRA 12:7)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.L. Aviosor) Stanislavskogo meditsinskogo instituta.
(BLOOD PRESSURE)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

SHEVCHUK, M.G. [Shevchuk, M.H.]; BEREZHNITSKIY, M.M. [Berezhnyts'kyi, M.M.]

Electrocardiographic indices in dogs under normal conditions and in experimental myocardial infarct. Fiziol. zhur. [Ukr.] 9 no.2:260-262 Mr-Ap '63. (MIRA 18:3)

1. Kafedra normal'noy anatomii i fakul'tetskoy terapii Ivano-Frankovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, M.M.

Case of coma in bronchial asthma. Vrach.delo no.7:741-743 Jl'58
(MIRA 11:9)

1. Kafedra fakul'tetskoy terapii (zav. - prof. M.L. Avisor)
Stanislawskogo meditsinskogo instituta.
(ASTHMA)
(COMA)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, L.T.

Limit stresses for a plate with two equal bow-shaped cracks. Fiz.-khim. mekh. mat. 1 no.1:99-106 '65. (MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov. Submitted September 4, 1964.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

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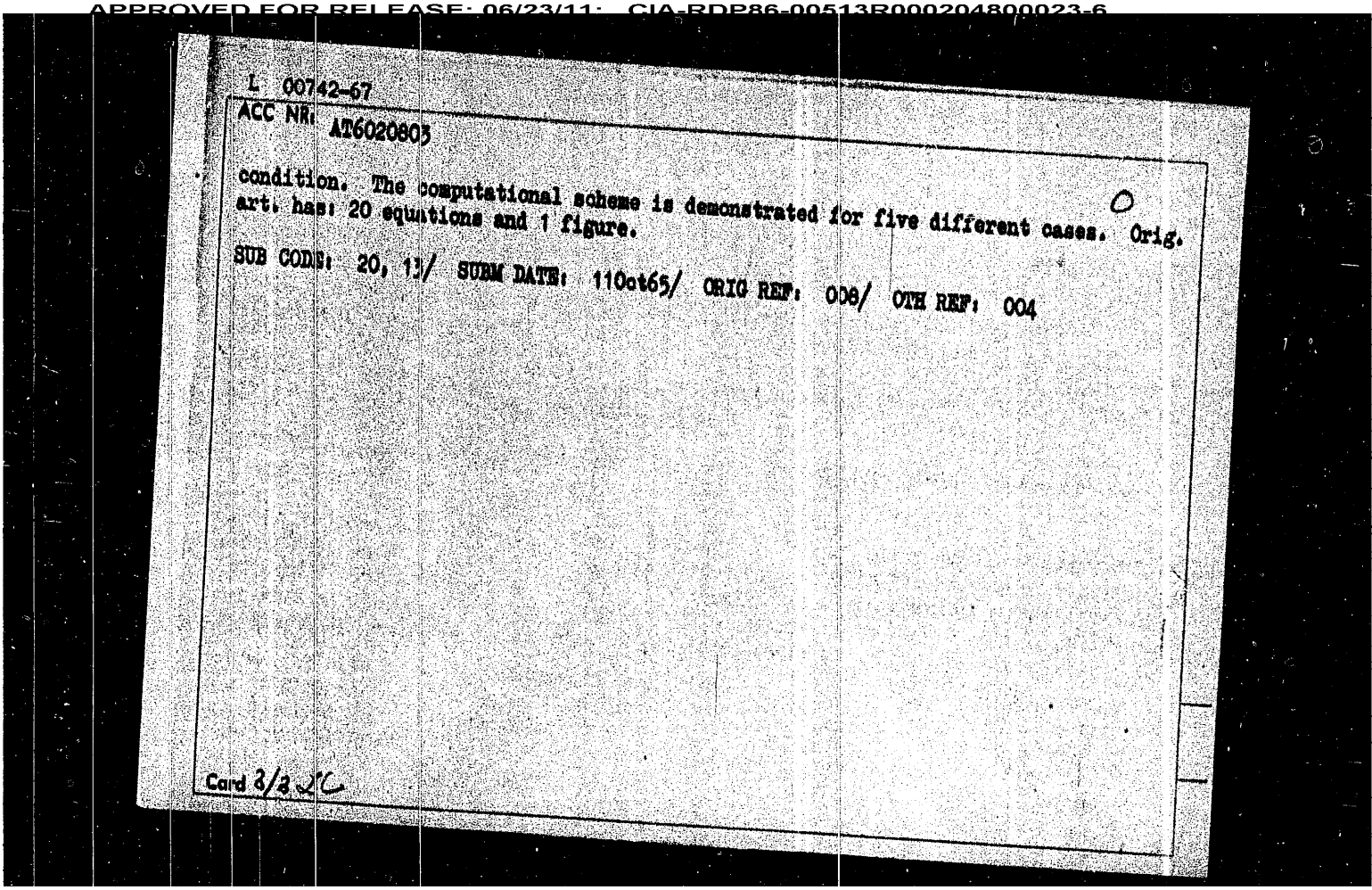

L 00742-67
ACC NR: AT6020803

condition. The computational scheme is demonstrated for five different cases. Orig. art. has: 20 equations and 1 figure.

SUB CODE: 20, 12/ SUBM DATE: 11Oct65/ ORIG REF: 008/ OTH REF: 004

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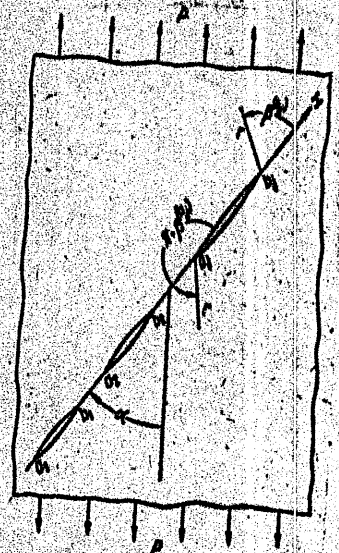
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

L 00742-67
ACC NR: AT6020853

Fig. 1.



in Figure 1. As indicated by G. I. Barenblatt (PMTF, 1961, No. 4), external forces applied to a body with a macroscopic crack are limiting if the stresses caused by these forces in the vicinity of the crack ends have the property $K/\alpha\sqrt{r}$, where K is the modulus of cohesion and r is a small distance from the end of the crack. A mathematical formulation is given in polar coordinates for the limiting equilibrium

Card 2/3

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L 00739-67 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP/JD/EM/GD
ACC NR: AT6020603 (N) SOURCE CODE: UR/0000/65/000/000/0046/0052

AUTHOR: Berezhnitskiy, L. T. (L'vov) 42 Bt 1

ORG: none

TITLE: On the limiting equilibrium of a plate weakened by a system of cracks distributed along a straight line at an angle with the direction of elongation stresses

SOURCE: AN UkrSSR. Institut mekhaniki. Kontsentratsiya napryazheniy (Concentration of stresses). no. 1. Kiev, Naukova dumka, 1965, 46-52

TOPIC TAGS: thin plate, stress analysis, crack propagation, yield stress, tensile stress

ABSTRACT: The nature of crack propagation and the effect of cracks on the strength of a solid are studied. The particular problem encountered is the problem of the limiting equilibrium state of an infinite elastic plate which is weakened by straight-line cracks distributed along a single line forming a certain angle with the direction of strain of the body. A system of straight-line cracks (a_j, b_j), where $j = 1,2,\ldots,n$, in an infinite plate is featured as being distributed along a real axis (see Fig. 1). It is assumed that the edges of the cracks are free from external stresses and that uniformly distributed, monotonically increasing forces p are applied at points which are infinitely distant from the crack. These forces make an angle α with the axis x

Card 1/3

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PANASYUK, V.V. (L'vov); BEREZHNITSKIY, L.T. (L'vov)

Limiting equilibrium of a plate having cracks along circumference arcs. Prikl. mekh. 1 no.10:52-60 '65. (MIRA 18:12)

1. Fiziko-mekhanicheskiy institut AN UkrSSR. Submitted March 26, 1965.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

PANASYUK, V.V.; BEREZHNITSKIY, L.T. [Berezhnyts'kyi, L.T.]

Determining the ultimate stress in the bilateral extension of a plate having an arbitrarily oriented crack. Dop. AN URSR no.1:36-40 '65. (MIRA 18:2)

1. Institut mashinovedeniya i avtomatiki AN UkrSSR. Predstavlenc akademikom AN UkrSSR G.N. Savinym [Savin, H.M.].

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKIY, L.T.; LEONOV, M.Ya.

Calculating compressed and bent beams. Nauch.zap.IMA AN URSR. Ser.mashinoved. 9:141-150 '62. (MIRA 15:12)
(Beams and girders)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNITSKY, L. T.; PANASYUK, V. V. (L'vov)

"On the propagation of curvilinear (circular) cracks in stretched plates"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 1964.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

TUDOS, Ferenc (Budapest XIV Hungaria korut 114); BEREZHNIKH, Tamara F. (Budapest XIV Hungaria korut 114); AZORI, Maria (Budapest XIV Hungaria korut 114)

Kinetics of the inhibition of thepolymerization of styrol. I. Effect of the stable-free radicals. Acta chimica Hung 24 no.1:91-106 '60. (EEAI 10:4)

1. Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest.

(Polymers and polymerization) (Styrene) (Diphenylpicrylhydrazyl)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNEV, Sergey Yefimovich; BERESHCHUK, N., red.; NAGIBIN, P., tekhn. red.

[Deeds and people of the Chandakskiy State Farm] Dela i liudi Chandakskogo sovkhoza. Alma-Ata, Kazsel'khozizdat, 1962. 23 p. (MIRA 17:2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BUKHALOVA, G.A.; BEREZHNAYA, V.T.

Quaternary system: potassium, calcium, and barium fluorides. Zhur.-neorg.khim. 8 no.4:964-9[illegible] Ap '63. (MIRA 16:3)
(Systems (Chemistry)) (Fluorides)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BUKHALOVA, G.A.; BEREZHNAYA, V.T.; MATEYKO, Z.A.

Melting diagrams of the ternary systems consisting of calcium, strontium, sodium, and potassium fluorides. Zhur.neorg.khim. 7 no.9:2233-2236 S '62. (MIRA 15:9)
(Fused salts) (Systems (Chemistry)) (Fluorides)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BUKHALOVA, G.A.; MATEYKO, Z.A.; BEREZHNAYA, V.T.

Melting diagram for the ternary systems consisting of sodium, potassium, strontium, and barium flourides. Zhur.neorg.khim. 7 no.7:1655-1658 Jl '62. (MIRA 16:3)

1. Rostovskiy-na-Donu inzhenerno-stroitel'nyy institut.
(Systems (Chemistry)) (Fluorides)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BUKHALOVA, G.A.; BEREZHNAYA, V.T.; BERGMAN, A.G.

Ternary systems consisting of calcium, barium, and alkali metal fluorides. Zhur.neorg.khim. 6 no.10:2359-2363 O '61. (MIRA 14:9)

1. Rostovskiy inzhenerno-stroitel'nyy institut.
(Systems (Chemistry))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, V.T.; BUKHALOVA, G.A.

Ternary system consisting of magnesium, calcium, and barium fluorides. Zhur.neorg.khim. 6 no.9:2136-2138 S '61.
(MIRA 14:9)

1. Rostovskiy inzhenerno-stroitel'nyy institut.
(Fluorides) (Systems (Chemistry))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

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ty. The ternary system investigated has a very low-melting eutectic in comparison to the melting points of the components. It may be satisfactorily applied as flux for welding aluminum and aluminum alloys. There are 3 figures and 3 references: 1 Soviet and 2 non-Soviet.

ASSOCIATION: Rostovskiy inzhenerno-stroitel'nyy institut (Rostov Institute of Construction Engineering)

SUBMITTED: July 20, 1960

Fig. 1: Projection of the crystallization surface of the system Mg^{2+}, Ca^{2+}, $Ba^{2+} \| F^-$ on the composition triangle.

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S/078/61/006/009/006/010
B107/B101

AUTHORS: Berezhnaya, V. T., Bukhalova, G. A.

TITLE: The ternary system magnesium fluoride - calcium fluoride - barium fluoride

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 9, 1961, 2136 - 2138

TEXT: The crystallization surfaces of the ternary system MgF_2 - CaF_2 - BaF_2 were determined (Fig. 1). 0.1% of ammonium fluoride was added to mixtures rich in MgF_2, in order to prevent hydrolysis. Twelve sections in all were investigated. Results: The system has four crystallization surfaces: the three components and the incongruently melting compound $BaF_2 \cdot 2MgF_2$. The system has two non-variant points: a eutectic point at 777°C, 27% MgF_2, 21% CaF_2, 52% BaF_2, and a peritectic point at 819°C, 46% MgF_2, 28% CaF_2, 26% BaF_2. The crystallization surface of $BaF_2 \cdot 2MgF_2$ extends into the field; this shows that the compound endeavors to obtain congruent solubili-

Card 1/3

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Melting-point diagrams of...

S/078/61/006/003/016/022
B121/B208

four components and the compound $LiF \cdot BaF_2$. The latter characterizes the melting-point diagram of the quaternary system; the lithium ion in this compound appears as a complexing agent that forms $Ba[LiF_3]$. The individual sections are graphically shown in Figs. 3-10. The ability of the fluorides of lithium, sodium, and potassium to form complexes with the fluorides of metals of the second group of the periodic system depends on the polarizability of the three cations. There are 12 figures, 6 tables, and 23 references: 18 Soviet-bloc and 5 non-Soviet-bloc.

ASSOCIATION: Rostovskiy inzhenerno-stroitel'nyy institut (Rostov Institute of Construction Engineering)

SUBMITTED: December 21, 1959

Card 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

S/078/61/006/003/016/022
B121/B208

AUTHORS: Berezhnaya, V. T., Bukhalova, G. A.

TITLE: Melting-point diagrams of quaternary systems from fluorides of lithium, sodium, potassium, and barium

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 3, 1961, 687-698

TEXT: The system Li, Na, K, Ba ‖ F was studied by the visual-polythermal method. The melting-point diagrams of the binary systems Li_2F_2 - K_2F_2, Li_2F_2 - Na_2F_2, Li_2F_2 - BaF_2, Na_2F_2 - K_2F_2, Na_2F_2 - BaF_2, K_2F_2 - BaF_2, and the ternary systems Li, Na, K ‖ F, Li, K, Ba ‖ F, Li, Na, Ba ‖ F, and K, Na, Ba ‖ F were checked; the results are in good agreement with published data. The system K, Na, Ba ‖ F was studied by K. A. Yevdokimova and A. G. Bergman. To investigate the quaternary systems, eight inner polythermal sections were made through their tetrahedra. Each of these sections was studied with the aid of four inner polythermal sections which are shown in the form of binary systems. The system shows five crystallization areas of the

Card 1/2

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The Quaternary System Lithium Fluoride - Sodium Fluoride - Potassium Fluoride - Strontium Fluoride

S/078/60/005/009/032/040/XX
B017/B058

simple type of a quaternary system with four eutectics. The orthogonal projection of this system on the Li, Na, K‖F face is shown in Fig. 12. The authors mention A. G. Bergman and Ye. P. Dergunov. There are 12 figures, 4 tables, and 7 Soviet references.

ASSOCIATION: Rostovskiy-na-Donu inzhenerno-stroitel'nyy institut (Rostov-na-Donu Institute of Civil Engineering)

SUBMITTED: May 4, 1959

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

S/078/60/005/009/032/040/XX
B017/B058

AUTHOR: Berezhnaya, V. T., Bukhalova, G. A.

TITLE: The Quaternary System Lithium Fluoride - Sodium Fluoride - Potassium Fluoride - Strontium Fluoride

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 9, pp. 2061 - 2070

TEXT: The quaternary system Li, Na, K, Sr‖F was studied by means of the visual-polythermal method. All initial salts were prepared by dissolving chemically pure carbonates of strontium, sodium, potassium and lithium in twice distilled hydrofluoric acid. Eight polythermal inner sections through the tetrahedron of the system Li, Na, K, Sr‖F were studied and their arrangement in the tetrahedron is represented in Fig. 2. Each section of the systems was studied by means of the polythermal inner sections. The results are shown in Figs. 3 - 10. Fig. 11 shows the three-dimensional diagram of the system. The system Li, Na, K, Sr‖F studied represents a

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

5.2400(B) 69029

AUTHORS: Berezhnaya, V. T., Bukhalova, G. A. S/078/60/005/04/027/040
B004/B016

TITLE: The Ternary Systems of Strontium Fluoride and Fluorides of Alkali Metals

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 4, pp 925 - 929 (USSR)

ABSTRACT: The authors investigated the systems Li, Na, Sr ‖ F (I), Li, K, Sr ‖ F (II), and Na, K, Sr ‖ F (III) according to the polythermal method. Figures 1, 2 show the seven sections through the system I and the melting-point diagram, figures 3, 4 the corresponding data of system II, and figures 5, 6 of system III. In all three systems only simple eutectics are formed without complex formation. In all systems the SrF_2 which is fusible more difficultly has the largest field of crystallization whereas the components melting more readily have the smallest field of crystallization. In systems II and III the isothermal lines take a convex course, in system I a concave one in all fields. There are 6 figures and 5 Soviet references.

ASSOCIATION: Rostovskiy inzhenerno-stroitel'nyy institut (Rostov Engineering and Construction Institute)

SUBMITTED: January 2, 1959

Card 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

The Quaternary System of Lithium-, Sodium-, Potassium-, and Calcium Fluorides

S/078/60/005/02/033/045
B004/B006

quaternary nonvariant points, one transition point (566°) and one eutectic point (444°). Notice is drawn to the low melting temperature of the eutectic. To define the position and temperature of the nonvariant points more precisely, four orthogonal projections are constructed on the surface of the system tetrahedron. The projection on the surfaces Li,Na,K ‖ F and the temperature projection are shown in figures 12 and 13 respectively. In this quaternary system, the complex compound $K[CaF_3]$ melts incongruently. There are 13 figures, 8 tables, and 6 references, 5 of which are Soviet.

ASSOCIATION: Rostovskiy-na-Donu inzhenerno-stroitel'nyy institut (Rostov-na-Donu Institute for Construction Engineers)

SUBMITTED: July 20, 1958

Card 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

5(2)
AUTHORS: Bukhalova, G. A., Berezhnaya, V. T.

S/078/60/005/02/033/045
B004/B006

TITLE: The Quaternary System of Lithium-, Sodium-, Potassium-, and Calcium Fluorides

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 2, pp 456-466 (USSR)

ABSTRACT: The authors give an introductory survey of data published for the six binary and four ternary systems formed by the components of the quaternary system Li, Na, K, Ca ∥ F which they investigated. In this connection, they mention papers by A. G. Bergman and Ye. P. Dergunov (Ref 2), G. A. Bukhalova, K. Sulaymankulov, and A. K. Bostandzhiyan, A. G. Bergman, and K. A. Yevdokimova. A survey of the ternary system Na,K,Ca ∥ F, first investigated by the authors, is given in figure 1. In the quaternary system, the eight quaternary cuts illustrated in figure 2 were investigated. The results are shown in figures 3-10 and tables 1-8. Basing on these data, the authors constructed the crystallization regions of LiF, NaF, KF, CaF_2, and $K[CaF_3]$ (Fig 11), which meet in four

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

The Melting Diagram in the Ternary System of Sodium-, Potassium- and Calcium Fluorides

05882
SOV/78-4-11-35/50

ASSOCIATION: Rostovskiy-na-Donu inzhenerno-stroitel'nyy institut (Rostov-na-Donu Institute of Civil Engineers)

SUBMITTED: May 19, 1958

Card 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

05882

5(2) SOV/78-4-11-35/50

AUTHORS: Bukhalova, G. A., Berezhnaya, V. T.

TITLE: The Melting Diagram in the Ternary System of Sodium-, Potassium- and Calcium Fluorides

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11, pp 2596 - 2599 (USSR)

ABSTRACT: In the system Na, K, Ca ‖ F, a complex formation can only be observed between KF and CaF_2. The congruently melting compound $KCaF_3$ considerably influences the character of the ternary system. The system was investigated in 11 sections (Figs 2,3). The crystallization surface is represented in figure 1 as a projection on the composition triangle. The compound $KCaF_3$ maintains its congruent character, also within the ternary system. As this compound forms continuous solid solutions with $KMgF_3$ having perovskite structure (Fig 4), it may be assumed to have the same structure. The capability of NaF and KF of forming complexes with fluorides of the second group of the periodic system depends on the ionic radius of the bivalent metal (Tables 1,2). There are 4 figures, 2 tables, and 13 references, 9 of which are Soviet.

Card 1/2

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SOV/78-4-5-32/46

The Three-component System Consisting of Fluorides of Lithium, Magnesium, and Barium

Three triple nonvariant points exist in the system, as well as one transition point (P_2) and two eutectic points (E_I, E_{III}). The composition of these points and the temperature are shown by table 2. The sections of the system Li, Mg, Ba||F are shown by figure 3. The low-melting mixtures of the three-component system may be used as fluxing material for the melting of nonferrous metals. There are 4 figures, 2 tables, and 6 references, 5 of which are Soviet.

ASSOCIATION: Rostovskiy-na-Donu inzhenerno-stroitel'nyy institut (Rostov na Donu Construction Engineering Institute)

SUBMITTED: February 8, 1958

Card 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

SOV/78-4-5-32/46

5(4)

AUTHORS: Bukhalova, G. A., Berezhnaya, V. T.

TITLE: The Three-component System Consisting of Fluorides of Lithium, Magnesium, and Barium (Troynaya sistema iz ftoridov litiya, magniya i bariya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 5, pp 1141-1145 (USSR)

ABSTRACT: The three-component system consisting of fluorides of lithium, magnesium, and barium was investigated by means of the visual-thermal method. The fluorides were produced by treating chemically pure carbonates with hydrofluoric acid. The two-component systems Li_2F_2-MgF_2, Li_2F_2-BaF_2 and MgF_2-BaF_2 were checked and completed. For the purpose of determining the crystallization regions 15 sections were investigated (Figs 2, 3, Table 1). The course of the sections is shown by figure 2. The following crystallization regions were found: $2MgF_2.BaF_2$, $Li_2F_2.2BaF_2$, BaF_2 and the continuous solutions Li_2F_2 and MgF_2. The compound $2MgF_2.BaF_2$ melts incongruently in the two-component system MgF_2-BaF_2 and congruently in the three-component system.

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The Melting Diagram of the Ternary System of Lithium, Magnesium and Calcium Fluorides

35% MgF_2. The low-melting point alloys of this system may be used as fluxes in the treatment of nonferrous metals. The characteristics of the melting diagrams of the three binary systems under investigation are listed in a table; another table contains the melting points along the six internal sections. There are 4 figures, 2 tables, and 5 references, 2 of which are Soviet.

ASSOCIATION: Rostovskiy-na-Donu inzhenerno-stroitel'nyy institut (Rostov-na-Donu Institute of Construction Engineering)

SUBMITTED: December 4, 1957

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

5(4) SOV/78-4-4-32/44

AUTHORS: Berezhnaya, V. T., Bukhalova, G. A.

TITLE: The Melting Diagram of the Ternary System of Lithium, Magnesium and Calcium Fluorides (Diagramma plavkosti troynoy sistemy iz ftoridov litiya, magniya i kal'tsiya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 4, pp 902-905 (USSR)

ABSTRACT: The ternary system Li, Ca, Mg ‖ F was investigated by a visual polythermal method. The corresponding fluorides were synthesized by treating calcium and magnesium carbonate with hydrofluoric acid. The melting points of these compounds are the following: MgF_2: 1396°, CaF_2: 1411° and Li_2F_2: 848°. The binary systems Li_2F_2-MgF_2, Li_2F_2-CaF_2 and MgF_2-CaF_2 were checked and completed. The authors investigated eleven internal sections of the ternary system; the results are listed in figure 3. The solid solutions of magnesium and lithium fluorides decompose already after the addition of 10% CaF_2 at 676° with the formation of a ternary eutectic: 18% CaF_2, 47% Li_2F_2 and

Card 1/2

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BEREZHNAYA, I. A.

Effect of a gaseous medium on the conductance, mobility, and concentration of current carriers in lead sulfide photoresistances. Zhur. fiz. khim. 36 no.12:2763-2765 D '62. (MIRA 16:1)

(Lead sulfide—Optical properties)
(Gases)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

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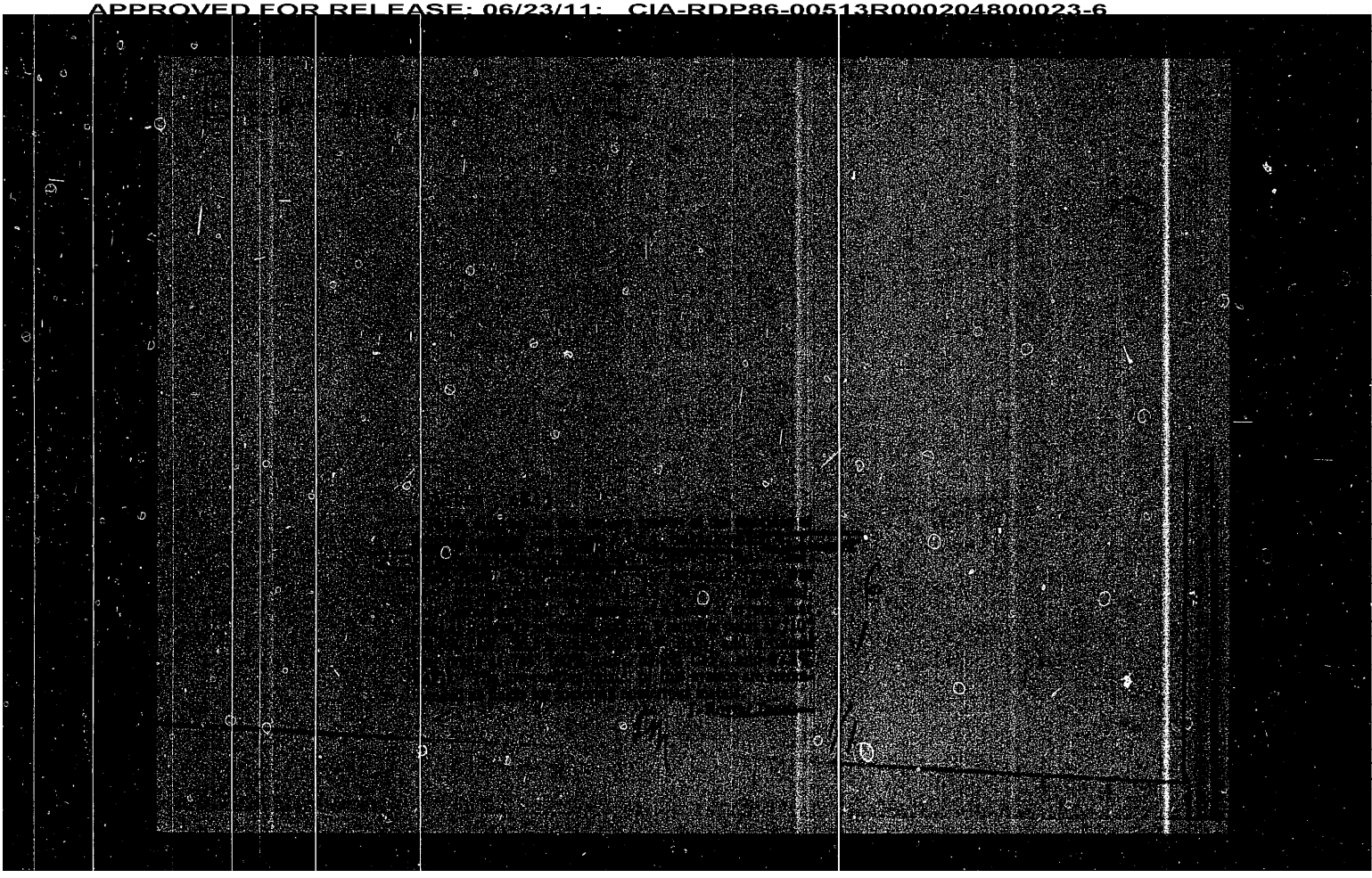

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BEREZHNAYA, V.G.

Pathology of experimental hymenolepiasis. Med. paraz. i paraz. bol. 34 no. 5:549-551 S-O '65 (MIRA 19:1)

1. Eksperimental'no-gel'mintologicheskaya laboratoriya Rostovskogo-na-Donu nauchno-issledovatel'skogo instituta meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR. Submitted February 26, 1965.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

EMINOV, Ye.A.; OSHER, R.N.; PATSUKOV, I.P.; CHEKAVTSEV, N.A.; MAZYRIN, I.V.; FUKS, G.I.; VLADZIYEVSKIY, A.P.; PATSUKOV, I.P.; AVDEYEV, A.V.; LOPOYAN, G.S.; PETROV, G.G.; KOZOREZOVA, A.A.; LISITSKIY, K.Z.; YAKOBI, M.A.; BELYANCHIKOV, G.P.; IVANOV, V.S.; VORONOV, N.N.; RUMYANTSEV, V.A.; ZILLER, G.K.; BEREZHNAYA, V.D.; LEVINA, Ye.S., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Manual on the uses and consumption standards of lubricants] Spravochnik po primeneniiu i normam raskhoda smazochnykh materialov. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 703 p. (MIRA 13:4)
(Lubrication and lubricants)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

SHASHKIN, Prokhor Ivanovich. Prinimali uchastiye: ZILLER, G.K.; BEREZHNAYA, V.D. /LEVINA, Ye.S., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Reclamation of spent petroleum oils] Regeneratsiia otrabotannykh neftianykh masel. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 303 p. (MIRA 13:11)
(Oil reclamation)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, V.D.; KAPUSTIN, B.N.; KOZOREZOVA, A.A.; MATSKIN, L.A.; STARKOV, G.V.; TITKOV, V.I.; SMELYANSKIY, V.A., redaktor; SOKOLOVA, N.N., tekhnicheskiy redaktor

[Manual on petroleum products in agriculture] Spravochnik po nefteproduktam v sel'skom khoziaistve. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 343 p. (MLRA 10:4)
(Petroleum products)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

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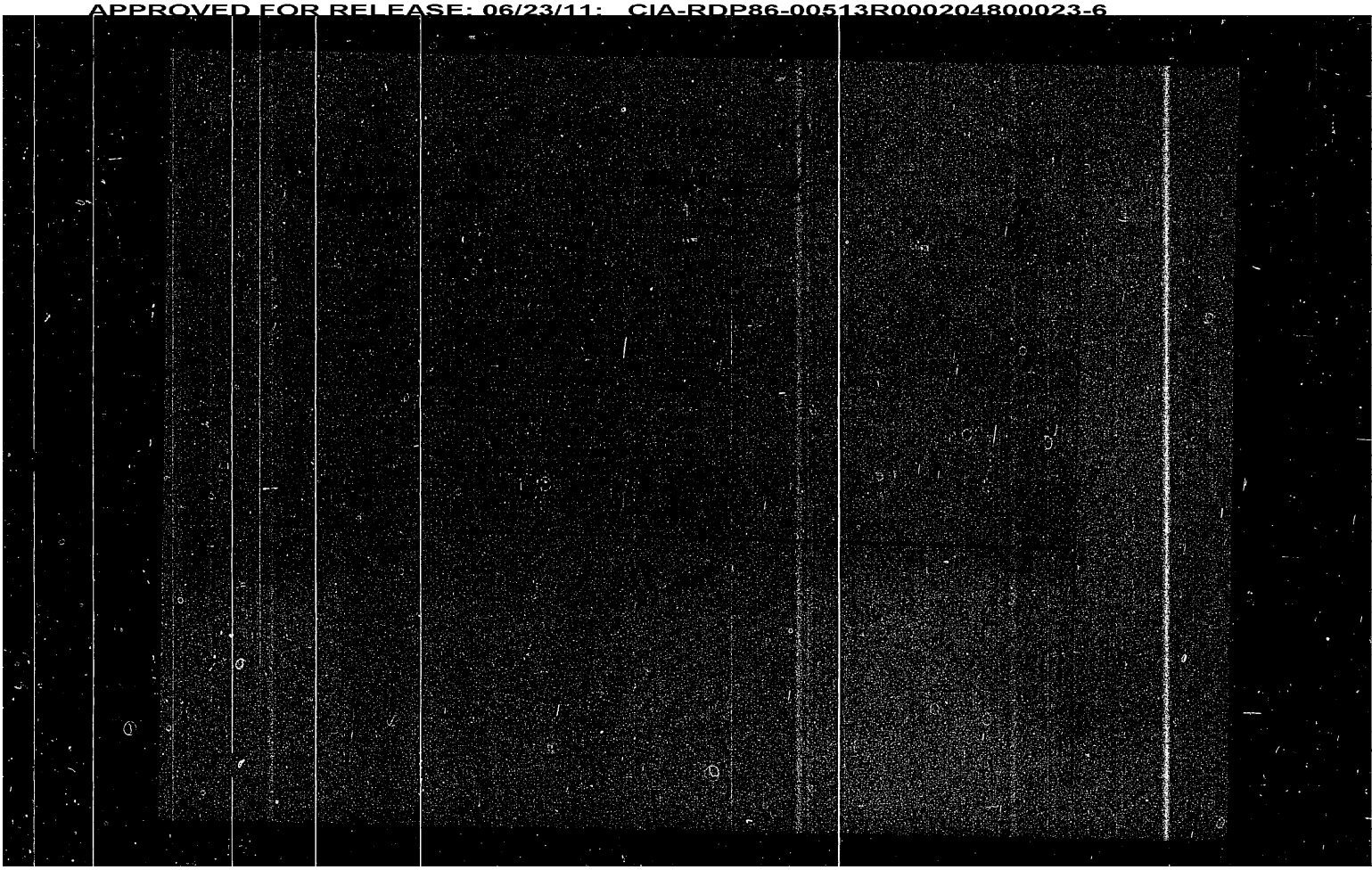

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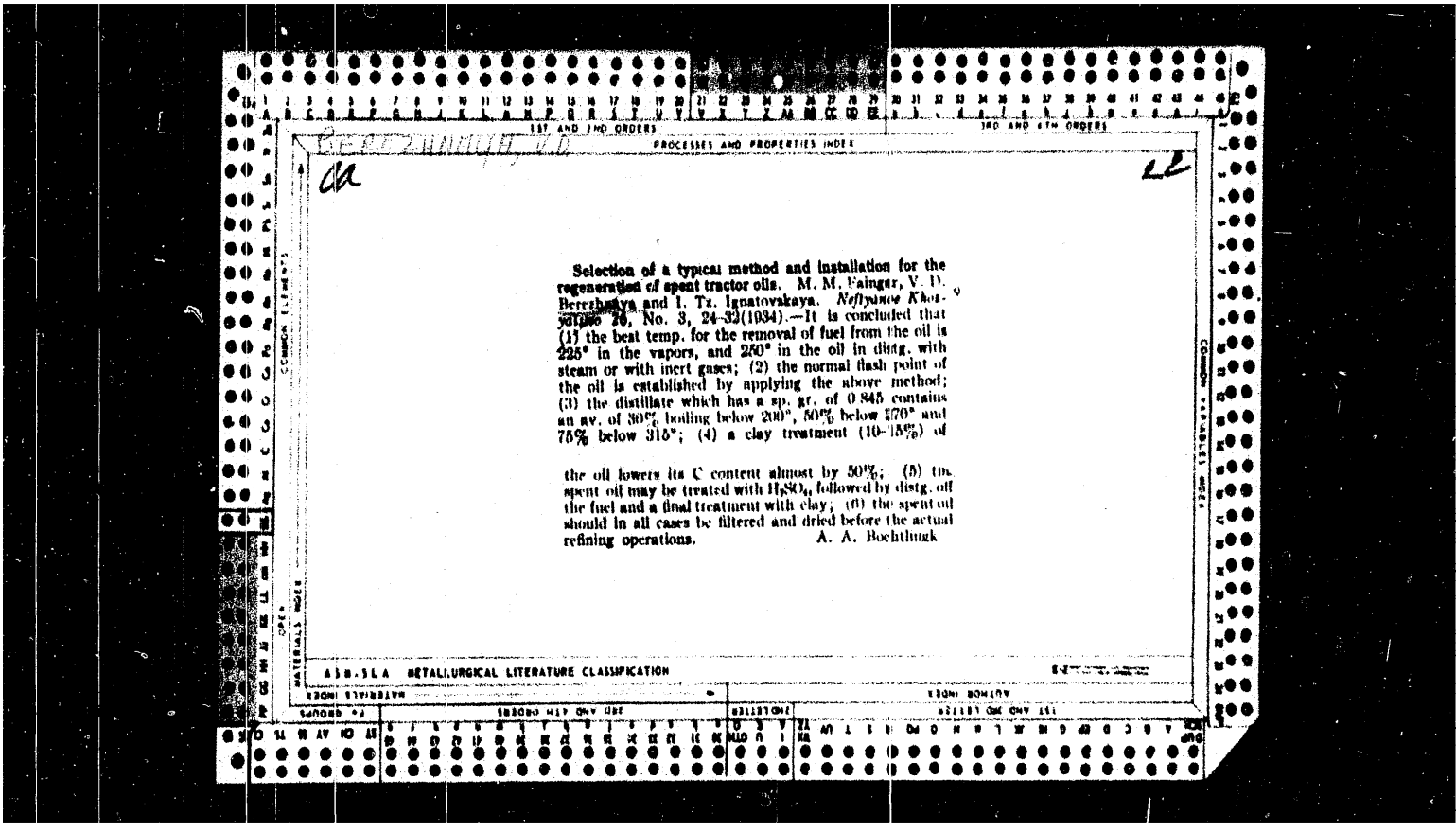

PROCESSES AND PROPERTIES INDEX

Selection of a typical method and installation for the regeneration of spent tractor oils. M. M. Faingar, V. D. Berezhnaya and I. Tz. Ignatovskaya. *Neftyanoe Khozyaistvo* 20, No. 3, 24-32(1934).—It is concluded that (1) the best temp. for the removal of fuel from the oil is 225° in the vapors, and 250° in the oil in distg. with steam or with inert gases; (2) the normal flash point of the oil is established by applying the above method; (3) the distillate which has a sp. gr. of 0.845 contains an av. of 30% boiling below 200°, 50% below 270° and 75% below 315°; (4) a clay treatment (10–15%) of the oil lowers its C content almost by 50%; (5) the spent oil may be treated with H_2SO_4, followed by distg. off the fuel and a final treatment with clay; (6) the spent oil should in all cases be filtered and dried before the actual refining operations. A. A. Boehtlingk

A 1 B. 5 L A METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, Praskov'ya Platonovna

BEREZHNAYA, Praskov'ya Platonovna (Kishinev Agricultural Inst)-Academic degree of Doctor of Agricultural Sciences, based on her defense, 6 April 1955, in the Council of the All-Union Sci Res Inst of Animal Husbandry, of her dissertation entitled: "The Role of External Factors -Feeding and Care - in Breeding of Moldavian Black Pedigree Group of Hogs." for the Academic Degree of Doctor of Sciences

SO: Byulleten' Ministerstva Vysshego Obrazovaniya SSSR, List No. 3, 4 February 1956 Decisions of the Higher Certification Commission Concerning Academic Degrees and Titles.

JPRS/NY 554

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, P. P.

"The Role of External Factors--Food and Maintenance--In the Raising of Swine of theBlack Moldavian Species Group." Dr Agr Sci, All-Union Sci Res Inst of Animal Husbandry, Moscow, 1955. (KL, No 11, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, P. P.

Moldavia - Swine

Green fodder plan for swine in Moldavia. Sots.zhiv. 15, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, N. M.

report to be submitted for the Symposium on the Mechanism of Antibody Formation, Prague, Czechoslovakia, 27-30 May 1959

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, N. M.: Master Med Sci (diss) -- "Experimental study of the influence of the higher portions of the central nervous system on the course of immunological reactions". Kiev, 1958. 12 pp (Acad Sci USSR, Inst of Higher Nervous Activity, Kiev Sci Res Inst of Epidemiology and Microbiology), 150 copies (KL, No 1, 1959, 123)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, N.

A daughter of the freedom island. Rabotnitsa no.1:8 Ja '63.
(MIRA 16:3)

(Alonso, Angella)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

USSR/General Problems of Pathology. Immunity. U-1

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60957

Author : Borozhnaya, N. M.
Inst : Not given
Title : The Utilization of Conditioned Reflexes in Immunological Reactions.

Orig Pub : V sb. Osnovy Immunitota, Moskva, 1956, 185-196.

Abstract : No relation could be found between changes of immunological reaction, and typological peculiarities of the nervous system in rabbits (determination made according to the motor-nutrition method of Kotlyarovskiy). An injection of 0,2 milliliters of Flexner's dysentery vaccine served as unconditioned irritant, and the noise of a shuttle as a conditioned stimulus. The possibility of increasing the titer of antibodies through conditioned reflexes was

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

Bereznaya, M. M. and Marchuk, P. D.

Neurohumoral relationship of the blood during the administration of ACS*.

(P. 165)

Materialy nauchnykh konferentsii, Kiev, 1959. 268pp
(Kievskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

Translator's note: *Antireticular cytotoxic serum

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MIRONENKO, A.V. [Mironenka, A.V.]; SPIRIDONOVA, G.I. [Spirydonava, H.I.]; BEREZHNAYA, L.I.; ANOKHINA, V.S.; MOZHAR, T.A.

Restoration of alkaloid biosynthesis and lupine following the intervarietal crossing of alkaloidless (forage) varieties. Vestsi AN BSSR. Ser. biial. nav. no.1:69-73 '65.
(MIRA 18:5)

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AEROV, M.E.; BEREZHNAYA, K.P.; BYSTROVA, T.A.; BERGO, B.G.;

Hydraulic and mass transfer in the intertubular space of a heat-exchange column. Khim.prom. no.9:703-705 S '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

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BERGO, B.G.; AEROV, M.E.; BEREZHNAYA, K.P.

Condensation-evaporation method for the separation of a binary mixture. Khim.prom. no.1:57-60 Ja '62. (MIRA 15:1)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov.
(Gases--Separation)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

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DUKHIN,S.S.; BEREZHNAYA, I.N.; SOLYANEK, Ye.G.; PEREKUPKA, I.A.

Role of thermophoretic and diffusion forces in the generation of ice crystals near cold surfaces. Part 2: Theoretical evaluation and experimental measurements of the yield of crystals generated near a spherical dry ice granule and a metallic sphere as dependent on the temperature of their surfaces. Koll. zhur. 26 no.6:662-669 N-D '64 (MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut, Kiyev.

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BEREZHNAYA, I. N.

3rd All-Union Conference on the Vitreous State
Leningrad, at the end of 1959.
Steklo i keramika, 1960, No. 3, pp. 43-46.

S/072/60/000/03/021/023
B003/B008

boron-free glasses. I. N. Berezhnaya, "The Influence of Radiation on Glass and Its Absorption Spectra". S. M. Brekhovskikh reported on a number of glass compositions with highly protective effect against gamma radiation and neutron flux. L. M. Blyumen reported on the favorable influence of an increased magnesium oxide content on the damping properties of an aluminous glass in the presence of fluoride and TiO_2. V. V. Vargin and T. N. Veynberg, "Coloring of Glasses in Connection With Their Structure". N. I. Vlasova, Ye. I. Galant, A. A. Kefeli, "Absorption Spectrum of the Co^{2+} Ion as Indicator for the Coordination of Boron and Aluminum in Glasses". V. P. Danilov and N. V. Berbash reported on the change of the spectral absorption of glasses of simple composition under the influence of gamma rays. G. O. Karapetyan reported on the influence of the structure of glasses on spectral and chemical properties of the Cer-ions. N. F. Orlov reported on the role of the admixtures and the crystalline state of the lattice in the coloring of quartz glass by gamma radiation. L. M. Blyumen and R. L. Shuster reported on the physicochemical nature of pore formation in silicate melts (foam glass, ceramzite). Ye. V. Yermolayeva reported on physico-chemical investigations of melts of refractory oxides in a state of equilibrium. I. F. Ponomarev, "The Importance of the Vitreous Phase in the Formation of the Ceramic Body and the Cement Clinker". V. A. Presnov reported on the physico-

Card 6/8

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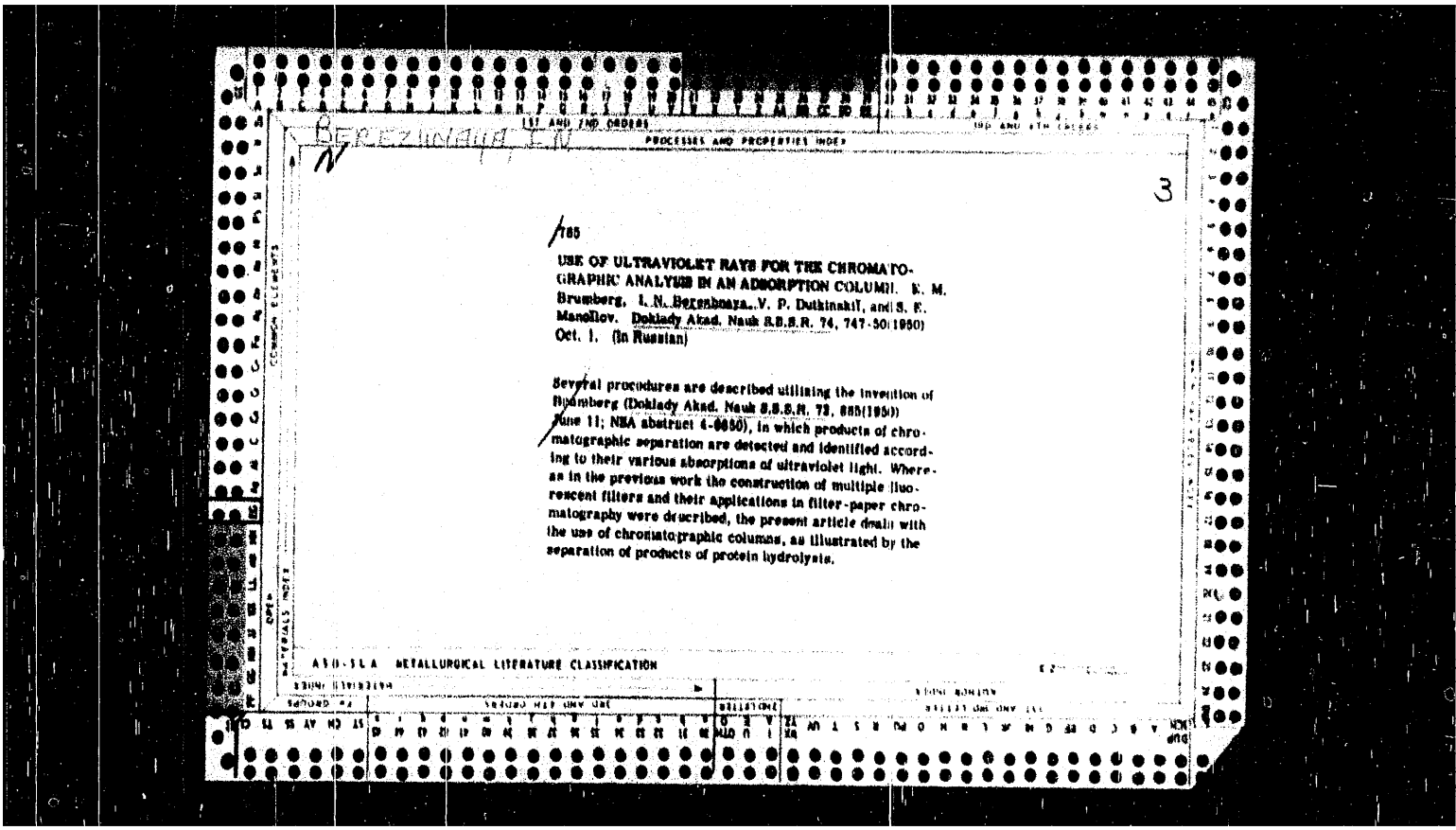

BEREZNYAKA I.N.

3

785

USE OF ULTRAVIOLET RAYS FOR THE CHROMATOGRAPHIC ANALYSIS IN AN ADSORPTION COLUMN. K. M. Brumberg, I. N. Berezhnaya, V. P. Dutkinskii, and S. E. Manolov. Doklady Akad. Nauk S.S.S.R. 74, 747-50(1950) Oct. 1. (In Russian)

Several procedures are described utilizing the invention of Brumberg (Doklady Akad. Nauk S.S.S.R. 73, 985(1950) June 11; NSA abstract 4-6650), in which products of chromatographic separation are detected and identified according to their various absorptions of ultraviolet light. Whereas in the previous work the construction of multiple fluorescent filters and their applications in filter-paper chromatography were described, the present article deals with the use of chromatographic columns, as illustrated by the separation of products of protein hydrolysis.

A50-5LA METALLURGICAL LITERATURE CLASSIFICATION

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BEREZHNAYA, A.A.; NIKULIN, V.N.

At refractories plants administered by the Sverdlovsk Economic Council. Ogneupory 26 no.10:447-449 '61.
(MIRA 14:11)

1. Upravleniye chernoy metallurgii Sverdlovskogo sovnarkhoza (for Berezhnaya). 2. Vostochnyy institut ogneuporov (for Nikulin).

(Sverdlovsk Province--Refractories industry)

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BEREZHNAYA, A.A.; PROKOP'YEVA, A.M.; BATUYEVA, G.N.

Using Ural raw materials in manufacturing steel-pouring stoppers and nozzles. Ogneupory 25 no. 3:107-108 '60. (MIRA 13:10)

1. Verkh-Isetskiy metallurgicheskiy zavod.
(Refractory materials) (Steel--Metallurgy)

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PROKOP'YEVA, A.M.; REREZHNAYA, A.A.; BATUYEVA, G.N.

Utilizing wastes of metallurgical plant refractory departments.
Ogneupory 19 no.5:237 '54.
(Factory and trade waste) (MIRA 11:8)

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DUBROV, N. F.; PROKOP'YEVA, A. M., Eng. BEREZHNAYA, A. A., Eng.

Open-Hearth Process

Tapping-hole mate ials made from kaolin waste, Ogneupory, 17, No. 7, 1952.

Monthly List of Russian Accessions Library of Congress October 1952 UNCLASSIFIED

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BEREZHNAYA, A. A.

USSR/Engineering - Foundry, Equipment Dec 51

"Low-Burnt Siphon Products With 28-35% Volume Porosity in Service," A. M. Prokop'yeva, A. A. Berezhnaya, Verkh-Iset Metallurgical Plant

"Ogneupory" No 12, pp 549-552

Investigation demonstrated that siphon pieces burnt to 1,000° show good heat-resistance, and their use does not increase contamination of ingot with non-metallic inclusions. To obtain low-burnt siphon, burning of products must be conducted at 800-1,000°.

198T21

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

BEREZHNAYA, A. A.

Chem Abs V48
1-25-54
Glass, Clay Products

Wastes from kaolin washing, useful in steel mill-processing materials. N. F. Dudrov, A. M. Prokopeva, and A. A. Berezhnaya. *Ogneupory* 1951, 821–5; through *Silikattechnik* 4, 380(1953).—Kaolin sands from washing plants are suitable for grog for channel stones in steel casting. The approx. chem. compn. of such kaolin sands with a residual content of about 19% kaolinite is: Al_2O_3 10.6, SiO_2 83.1%, and very low fluxes. Bound with fireclay (32.8% Al_2O_3), at 1200°, the bodies are easily machined and are fine grained, the particles being spheroidal. They are equal, or superior, to the usual grog-fireclay refractories. The surface becomes covered with a highly siliceous viscous slag (about 71% SiO_2) which affords excellent protection. W. Eitel

(3)

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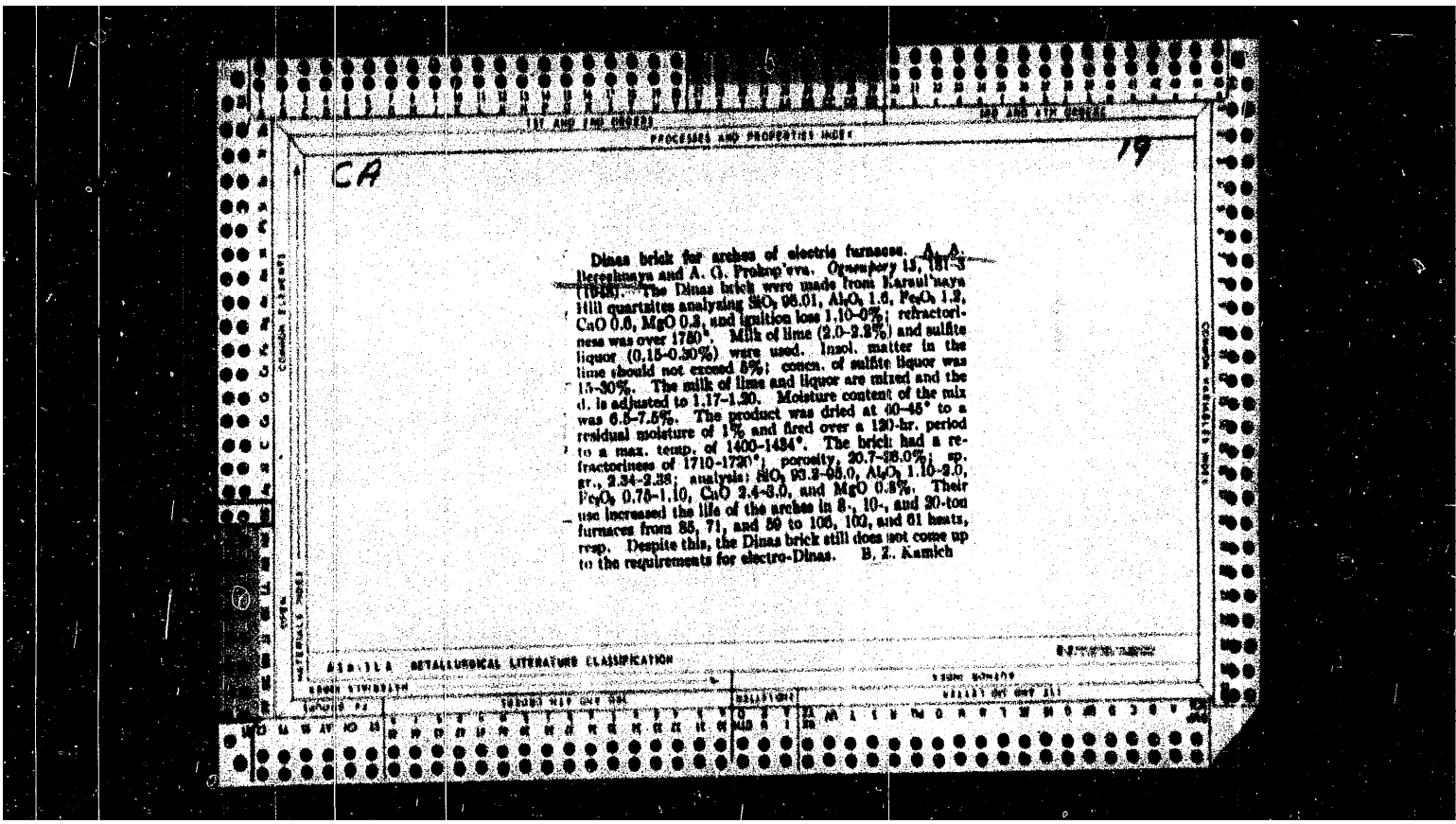

CA

19

Dinas brick for arches of electric furnaces. A. A. Berezhnaya and A. G. Prokop'eva. *Ogneupory* 13, 181-3 (1948). The Dinas brick were made from Karaul'naya Hill quartzites analyzing SiO_2 98.01, Al_2O_3 1.6, Fe_2O_3 1.2, CaO 0.6, MgO 0.3, and ignition loss 1.10-0%; refractoriness was over 1780°. Milk of lime (2.0-2.8%) and sulfite liquor (0.15-0.30%) were used. Insol. matter in the lime should not exceed 5%; concn. of sulfite liquor was 15-30%. The milk of lime and liquor are mixed and the d. is adjusted to 1.17-1.20. Moisture content of the mix was 6.5-7.5%. The product was dried at 40-45° to a residual moisture of 1% and fired over a 120-hr. period to a max. temp. of 1400-1434°. The brick had a refractoriness of 1710-1720°; porosity, 20.7-25.0%; sp. gr., 2.34-2.38; analysis: SiO_2 93.3-95.0, Al_2O_3 1.10-2.0, Fe_2O_3 0.75-1.10, CaO 2.4-3.0, and MgO 0.8%. Their use increased the life of the arches in 8-, 10-, and 20-ton furnaces from 35, 71, and 59 to 105, 102, and 61 heats, resp. Despite this, the Dinas brick still does not come up to the requirements for electro-Dinas. B. Z. Kamich

ASTALA METALLURGICAL LITERATURE CLASSIFICATION

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BEREZHNAYA, A. A.

"Production of Dinas for the crowns of electric furnaces of the Verkh-Isetskiy Plant"

Ogneupory, No. 4, 1948

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PROKOP'YEVA, A.; BEREZHNAYA, A.; BATUYEVA, G.

Made of local raw materials. NTO no.9:17 S '59.
(MIRA 13:1)

1. Chleny Nauchno-tekhnicheskogo obshchestva Verkh-Isetskogo metallurgicheskogo zavoda.
(Ural Mountain region--Kaolin)

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MARCHUK, P.D.; KOROL', S.A.; BEREZHNA, N.M. [Berezhnaya, N.M.]

Antigenic properties of some tissues. Fiziol. zhur. [Ukr.] 7 no.5: 636-643 S-O '61. (MIRA 14:9)

1. Institute of Gerontology and Experimental Pathology of the Academy of Medical Sciences of the U.S.S.R., Kiev.
(ANTIGENS AND ANTIBODIES) (TISSUES)

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S/590/62/105/000/014/015
I031/I242

Properties of large forgings...

52 kg/mm^2 at 565°C for 100 000 hrs. The presence of a notch apparently has little effect on the stress-rupture strength of the tested forgings. There are 9 figures and 5 tables.

Card 3/3

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S/590/62/105/000/014/015
I031/I242

Properties of large forgings...

175 mm and 250 mm in diameter and up to 2 m long, were forged and heat-treated. Before heat-treatment the specimens showed a fine-grain, homogeneous microstructure with areas of positive segregation. The outer surface of heat-treated specimens revealed recrystallized coarse grains. The presence of twins and numerous slip planes indicates the cold-work deformation in these areas. A spectrum analysis showed that the zone of segregation is caused by localized concentration of titanium (1.45%). Mechanical properties were checked on longitudinal specimens. The short-term strength and ductility of large forgings were satisfactory, though less so than those of small forgings. The behavior of the steel was not affected by the diameter of forgings. The stress-rupture strength, though 5 Kg/mm^2 less than that of the small diamter forgings, was

Card 2/3

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S/590/62/105/000/014/015
I031/I242

AUTHORS: Filatova, M.A., Eng. and Berezhkovskiy, D.I., Eng.

TITLE: Properties of large forgings for fastenings made of the alloy ЭИ 765 (EI 765)

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya. Trudy. v.105, 1962, 197-208

TEXT: Selection of a suitable steel for bolting material in high-pressure power equipment is a difficult task. At present, a high-temperature Ni-Ci alloy of EI765 type, with high relaxation and stress-rupture resistance, is temporarily used for fatenings in steam turbines at working temperatures of 565-600°C. Samples,

Card 1/3

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BEREZHKOVSKIY, D.I., inzh.

Diagrammatic representation of recrystallization structure characteristics. Metalloved. i term. obr. met. no.9:29-33 S '62.
(MIRA 16:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.
(Deformations (Mechanics)) (Crystallization)

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ALTYKIS, A.V.; BEREZHKOVSKIY, D.I.; VOLKOVITSKIY, V.F.; GIRSH, I.I.[deceased]; GOL'MAN, L.D.; GRANOVSKIY, S.P.; DOBRINSKIY, N.S.; ZIMIN, A.I.; ZLOTNIKOV, S.L.; KAGALOVSKIY, A.I.; LOBACHEV, P.V.; MARTYNOV, V.N.; MOSHNIN, Ye.N.; NAVROTSKIY, G.A.; OKHRIMENKO, Ya.M.; ROVINSKIY, G.N.; STOSHA, Ye.A.; ROZHDESTVENSKIY, Yu.L.; TIKHOMIROV, N.V.; UNKSOV, Ye.P., doktor tekhn. nuk, prof.; SHCHEGLOV, V.F.; SHOFMAN, L.A.; SIROTIN, A.I., red. izd-va; MODEL', B.I., tekhn. red.

[Present state of the forging industry]Sovremennoe sostoianie kuznechno-shtampovochnogo proizvodstva. By Kollektiv sovetskikh i chekhoslovatskikh avtorov. Moskva, Mashgiz; Prague, SNTL, 1961. 434 p. (MIRA 14:8)

(Forging)

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85131

S/182/60/000/004/002/007

Cast Metal Structure Changes in Plastic Compression A161/A029

($T_{сж} = T_{рекр} \geq 0.9 T_{пл}$, or, translated $T_{compr} = T_{recr} \geq 0.9\ T_{melt}$). Hence, ingots must be heated for swaging to the maximum permissible temperature. 3) Swaging with the hammer gives a larger volume of transformed structure than swaging with the press. 4) The transformation process consists in the formation of blocks i.e., falling of cast crystallites apart into blocks or splitting, and the splinters form the centers of the formation of new grains. The "blocks" start forming on the boundaries of the primary cast cyrstallites, and from the axes of dendrites in direction from the boundaries to the center of the crystallites. 5) Compression at a temperature lower than the recrystallization point causes the formation of crystallization centers that grow in subsequent rehaeat to forging temperature and produce an equiaxial fine-grained structure. There are 6 figures and 2 Soviet references.

Card 3/3

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85131

Cast Metal Structure Changes in Plastic Compression

S/182/60/000/004/002/007
A161/A029

diagram, the initial cast metal structure was retained in swaging with the drop hammer to 17 %, and to 40 % in swaging with the press. A higher deformation degree produced a mixed structure, i.e., cast and deformed structure. At 1,200°C the cast structure started disappearing at a 10 % compression on the hammer, and at a 20 % compression on the press; deformation to higher degrees produced a mixed structure. Cast structure disappeared completely at a 42 % compression on the hammer, and at 70 % on the press. The difference is explained by the different heat effect and cooling of metal in contact in the swaging process with the hammer and with the press. The following conclusions were drawn: 1) It is possible to transform cast coarse metal structure completely or partly into fine deformed structure by compression in one direction (without edging the forging). The temperature at the compression process end must be above the recrystallization point, and the deformation degree not below the temperature prescribed for the given alloy. 2) In compression deformation of EI765 alloy in the cast state, recrystallization is comparatively rapid beginning with 1,100°C, and can be completed in separate portions of specimens at the moment of pressure or impact. For complete recrystallization throughout the entire volume of body being deformed, the temperature in every point (in EI765 alloy) during the deformation must be at the recrystallization point and not lower than 0.9 of the melting point

Card 2/3

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85131
S/182/60/000/004/002/007
A161/A029

18.7500 also 2108, 1555, 1454

AUTHOR: Berezhkovskiy, D.I.

TITLE: Cast Metal Structure Changes in Plastic Compression

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 4, pp. 12-16

TEXT: The purpose of the described investigation was to study changes in cast metal structure in triaxial nonuniform compression, and the effect of temperature, rate and degree of this deformation on such changes. Details of the experimental techniques used are given. Specimens were taken from a 500 kg ingot of heat-resistant nickel alloy ЭИ765 (EI765) alloyed with chromium, aluminum, titanium, tungsten, molybdenum and boron. Metal specimens were heated in an eletric resistance furnace, the press plates were heated to 700-900°C, and compression was produced at 900, 1,000, 1,100 and 1,200°C on a hydraulic press with 5-20 mm/sec, and on a drop hammer with 4.5 m/sec at the moment of impact. All specimens were compressed by 30 %. A screw was screwed into each specimen in axial direction to study deformation. Microstructures obtained in different conditions are shown in photographs. A recrystallization diagram (Fig. 6) has been plotted (for the first time for cast metal structure). As can be seen in this

Card 1/3

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BEREZHOVKSIY, D.I.

Calculating pressures during the upsetting of ingots on presses.
Kuz.-shtam. proizv. 1 no.2:1-5 F '59. (MIRA 12:10)
(Forging)

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BEREZHKOVSKIY, D.I.

PHASE I BOOK EXPLOITATION SOV/5559

Akademiya nauk SSSR. Institut metallurgii. Nauchnyy sovet po probleme zharoprochnykh splavov

Issledovaniya po zharoprochnym splavam, t. 5 (Investigations of Heat-Resistant Alloys, Vol 5) Moscow, Izd-vo AN SSSR, 1959. 425 p. Errata slip inserted. 2,000 copies printed.

Ed. of Publishing House: V.A. Klimov; Tech. Ed.: I.F. Kuz'min; Editorial Board: I.P. Bardin, Academician, G.V. Kurdyumov, Academician, N.V. Agayev, Corresponding Member, USSR Academy of Sciences (Resp. Ed.), I.A. Oding, I.N. Pavlov, and I.F. Zudin, Candidate of Technical Sciences.

PURPOSE: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of interest to students of advanced courses in metallurgy.

COVERAGE: This book, consisting of a number of papers, deals with the properties of heat-resisting metals and alloys. Each of the papers is devoted to the study of the factors which affect the properties and behavior of metals. The effects of various elements such as Cr, Mo, and W on the heat-resisting properties of various alloys are studied. Deformability and workability of certain metals as related to the thermal conditions are the object of another study described. The problems of hydrogen embrittlement, diffusion and the deposition of ceramic coatings on metal surfaces by means of electrophoresis are examined. One paper describes the apparatus and methods used for growing monocrystals of metals. Boron-base metals are critically examined and evaluated. Results are given of studies of interatomic bonds and the behavior of atoms in metal. Tests of turbine and compressor blades are described. No personalities are mentioned. References accompany most of the articles.

Savitskiy, Ye.S., and K.V. Popov. Study of Certain Problems of the Temperature Dependence of the Plasticity of Steel From the Viewpoint of the Dislocation Theory 150

Gruzin, P.L., L.V. Pavlinov, A.D. Tyutyunnik (Deceased), and G.B. Fedorov Self-Diffusion in Chromium and Molybdenum 155

Fedortsov-Lutikov, G.P., M.F. Sheshenev, R.S. Kaplan, N.I. Butko, and I.S. Marinenko. Investigation of the Properties of EI 756 Steel 160

Fedortsov-Lutikov, G.P., F.I. Pashukanis, and M.I. Solonouts. Cast Austenitic Steels for Service at Temperatures of 650°-700°C 166

Tsvetlin, V.Z., M.A. Pilatova, A.V. Ryabchenkov, A.I. Maksimov, S.A. Lodkovskiy A.S. Lobada, D.I. Berezhkovskiy, V.K. Novitskiy, and M.Ya. Dzugutov. Heat-Resistant Alloy for Automotive and Stationary Gas Turbines 173

Minta, R.S. The Effect of Elements of Groups IV to VIII of the Periodic Table on the Properties of Phase Ni3Al 179

Kutkovskiy, S.I. The Effect of Hardness and Grain Size on the Thermal Fatigue of Heat-Resistant Steel 187

Portnoy, K.I., and G.V. Samsonov. Study of Boride-Base Materials 192

Arshanyy, P.M. Study of Phase Composition of the Diffusion Layer 199

Apayev, B.A. On the Theory of Recovery and Complex Alloying of Steels 203

Nekhendzi, Yu.A., N.G. Girshovich, Ye.Ya. Silyk, G.P. Kochkareva, M.V. Antipov, I.V. Gryzunyk, and A.Ya. Ioffe. Castability of Heat-Resisting Alloys 210

Medovar, B.I., and A.N. Safonnikov. Metallurgical Problems in Electroslag Welding of Heat-Resisting Austenitic Steels and Nickel-Chromium-Base Alloys 220

Paton B.Ye., B.I. Medovar and Yu.V.Latash. Improvement of Quality and Workability of Alloyed Steels and Alloys by Means of Electroslag Remelting in Water-Cooled Metal Molds 228

Lyubinskiy, B.E. The Effect of Small Amounts of Addition Agents on the Property of Nickel-Base Alloys 234

Chizhikov, D.M., and A.M. Grin'kin. The Formation and Dissociation of Niobium Sulfides 240

Pavlov, I.M. Forming of Hard-to-Form Alloys 245

Rastegayev, M.V., and A.N. Danil'chenko. Specific Deformation Work [per Unit of Volume] of Certain Alloys 255

Kovalev, A.T., and A.M. Samarin. Mechanical Properties of Deformed Chromium 260

Kornoyev, N.I., I.G. Skugarev, S.B. Berman, and Ya.I. Rezhkovskiy. Thermomechanical Regime of Forming High-Melting Molybdenum-Base and Chromium-Base Alloys 269

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800023-6

A New Method for the Determination of the Forging Quality of Metals SOV/32-24-7-34/65

Iodkovskiy for the investigation of the forging temperature range, the tolerable degree of deformation, the partial pressure and of other technological parameters. Also casts from production may be used for this new method, however, in such a case the plates used must not be plane parallel. A table containing the values of the minimum degree of deformation at which cracks are formed is given in correspondence to various metallurgical data. There are 2 figures, 1 table, and 1 reference, which is Soviet.

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Card 2/2

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